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**A SELECTED BIBLIOGRAPHY
OF
INSECT-VASCULAR PLANT ASSOCIATIONAL STUDIES**

**Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE**

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A SELECTED BIBLIOGRAPHY OF INSECT-VASCULAR PLANT ASSOCIATIONAL STUDIES

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Introduction

Despite the tremendous economic losses caused by phytophagous insects and the vital importance of insect-plant relationships to agricultural sciences, nowhere in the North American literature is there a comprehensive compilation by plant families of principal works that treat insect associates of vascular plants according to single species or genera. Our efforts to find reliable plant-host-association information for several beetle families disclosed this lack of available bibliographies as well as some inconsistencies in the method of reporting plant-insect relationships.

In the course of studies in our individual specialties, we found many references that provided us with useful information and ideas. We have compiled them in this report under various categories, believing that they will quickly provide for others an initial source for which we originally searched.

Many of these references were published in 1962 in "A Selected Bibliography of Insect-Vascular Plant Associations in the United States and Canada" (Mimeo F-4, Section of Faunistic Surveys and Insect Identification, Illinois Natural History Survey), with Sanderson as senior author.

Copies of the Mimeo F-4 were sent to more than 100 workers in the United States and Canada, whom we considered to have special interests in insect-plant relationships, with a request for any additional references we had not included and for any suggestions or criticisms that they might have regarding the paper.

Many of their suggestions, incorporated with the original version, have resulted in the present publication, which we hope will stimulate the unearthing of additional unpublished theses on the subject and will focus attention not only on the work that has already been accomplished

but also on areas that are in need of exploration. The bibliography has been further revised with the addition of an index to plant genera and common names and the inclusion of selected additional titles from other parts of the world.

In our scrutiny of the literature, we were constantly confronted with inconsistencies in the methods of reporting host data and uncertainties in reporting the degree of association of the insect with its host plant. We feel that the ideal report should state as fully as possible the relationships of each insect species in all of its stages with each stage of the plant species. It should also recognize that insect associations range from that of simply a resting site to one in which the insect is an obligatory associate of a single plant species. Many so-called host records signify only that the insect was collected on the plant, and may or may not indicate an actual breeding association. However, indefinite records of this nature should not be hastily discarded until the status of the association can be ascertained, because such records may offer the only clues to the true relationship between the organisms.

We found no reports which possessed all of the ideal characteristics, although some approached closely (Balduf, 1959 (p. 18); Judd, 1961 (p. 7)). Many reports gave only a list of the insects that had been collected on the plant and omitted any explanation of the true insect-plant relationship. Some gave the life histories of a few insects with a list of other insects taken on the plant.

An excellent example of a desired type of study is the above-mentioned report by Judd, in which he correlates the occurrence of insects during the growth of skunk cabbage (*Symplocarpus foetidus*). His paper demonstrates that knowledge of the mechanisms by which insects are attracted to plants, or are held there, is an essential and intimate component of one's understanding of plant-insect relationships.

The importance of accurate identification of plant species or smaller units is obvious when it is recognized that generalizations concerning insect-host relationships should be based on precise identification. Generic identifications of plants often are insufficient. Likewise, the entomological investigator should work with the smallest taxonomic unit possible.

Associations, if they are to have validity in the future, may require that documented inflorescence-bearing plant samples with associated insects be permanently preserved for future reference, should taxonomic refinements or misidentifications suggest restudy.

Several basic botanical references for the United States and Canada which we found useful are:

American Joint Committee on Horticultural Nomenclature.

1942. Standardized plant names. ED. 2, prepared by Kelsey, H. P., and W. A. Dayton, editors. 675 pp. J. Horace McFarland Co., Harrisburg, Pa.

Anderson, Kling L.

1961. Common names of a selected list of plants. Kans. Agr. Expt. Sta. Tech. Bul. 117, 59 pp.

Fernald, M. L.

1950. Gray's manual of botany. Ed. 8. 1632 pp. Amer. Book Co., New York [etc.]

Gleason, H. A.

1952. The new Britton and Brown illustrated flora of the Northeastern United States and adjacent Canada. 3 v. New York Bot. Gardens.

Hitchcock, A. S.

1951. Manual of grasses of the United States. Ed. 2, rev. by Agnes Chase. U.S. Dept. Agr. Misc. Pub. 200, 1051 pp.

Hitchcock, C. L., Arthur Cronquist, Marion Ownbey, and J. W. Thompson.

1955. Vascular plants of the Pacific Northwest. Wash. [State] Univ. Pubs. Biol., v. 17, pts. 3-5. Univ. Wash. Press, Seattle.

Kearney, T. H., and R. H. Peebles.

1942. Flowering plants and ferns of Arizona. U.S. Dept. Agr. Misc. Pub. 423, 1069 pp.

Munz, Philip, and D. D. Keck.

1959. A California flora. Rancho Santa Ana Botanic Garden. 1681 pp. Univ. Calif. Press, Berkeley.

Rydberg, P. A.

1954. Flora of the Rocky Mountains... Ed. 2, rev. 1144 pp. The Author, New York.

Sargent, Charles S.

1947. *The Silva of North America*. 14 v. Peter Smith, New York.

Small, John K.

1933. *Manual of the southeastern flora*. 1554 pp. Univ. North Carolina Press, Chapel Hill.

The compilation is limited to vascular plants, including the pteridophytes. As many original papers as possible were examined to check the accuracy of citation and determine content suitability. Generally, references to vertebrate and noninsect assemblages were omitted except as they were included in the general plant and insect association. The authors strongly suggest that for the convenience of cataloging, the specific Latin names should be included in the titles of published papers.

The increase of activity in the past 10 years in biological control of undesirable plants has emphasized the critical need for studies in this field. For this reason, titles from outside the United States and Canada are included if they are particularly comprehensive or if they fill a gap in the knowledge of the insects associated with a family of plants. It is impossible to include every such reference, but many papers useful to those working with phytophagous insects are included.

The present paper comprises four sections, each having a specific purpose.

Section I is the main body of references to insect assemblages with a plant species or genus, arranged in alphabetical order by plant family and by plant genus or species. We have attempted to limit our bibliography in this section to several categories: (1) References to reports of associations from a single locality, (2) reports which cover the entire range of the plant, (3) native plants in or out of cultivation, (4) uncultivated introduced plants which attract our native insects, and (5) some introduced plants in cultivation. A paper restricted to a single order of insects was included if this was the only reference to associations of insects with the plant species. References were omitted which treated only injurious insects of specific introduced plants unless these were the only treatments available for the particular plants. Other references were omitted which primarily concerned identification and control of insects associated with specific cultivated plants. Whenever we experienced doubt regarding the applicability of some references, we included them. Special attention is directed to the work of Kaltenbach (1874) cited in Section III. This work is arranged by plant families, and, although restricted to European insects, it has one of the most complete listings of plant-feeding insects we have seen. It may offer clues to the food habits of the American members of insect genera common to both continents. A comparable work for forest insects of Southern Asia is that of Bhasin et al (1954-61). (See Section III.)

Section II is a special section devoted to the principal works of Charles Robertson. Both botanist and entomologist, he wrote prolifically between 1886 and 1933 on the subject of interrelations of insects and flowers. His *Flowers and Insects* (1929), arranged in alphabetical order by plant families, summarized his personal observations between 1899 and 1929; his principal earlier references were included. Section I would have been unduly enlarged had we included the Robertson references under each plant family, thus our decision to give these references a special category. Many other references of Robertson not included here treat phenology, evolution of entomophilous flowers, and anthecology. They can be found in *Ecology*, *Scientific Monthly*, *Psyche*, and *American Naturalist*.

Section III contains a list of general references to phytophagous insects. Some individual reports contain many sections treating specific plant-insect associations, such as the work by Packard (1890) on shade tree insects, Craighead (1950) on eastern forests, and the companion work by Keen (1958) on western forests. Others are valuable sources of more general associational data involving plant associates such as prairies (Hendrickson 1930, 1931; Vestal 1913), hammocks (Dozier 1920), and swamps. The works of Brues (1946) and Frost (1959) are basic ones that include general treatments of phytophagous insects; they contain extensive bibliographies.

Section IV includes principal references to the phytophagous food habits of several insect orders. Peterson's excellent manuals of insect larval forms (1948, 1951--cited in Section III) include extensive food-plant lists of the insect orders treated. The list of references in Section IV is by no means complete, but it will give the worker a basis for further bibliographical searching, especially at the insect-family level.

We have purposely omitted many available references to the food habits of families, sub-families, or genera of insects, because this is in the area of the specialist in each insect order. We likewise have omitted many references to insect-flower relationships and to insect galls, because these again are specialized studies in themselves and should be brought together in separate lists. Special sections in volumes of the Zoological Record list titles in these fields.

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